

Funding Opportunities through MassCEC

EPA Energy Leaders

December 8, 2010

What is the MA Clean Energy Center?

- Quasi-public state agency created by the Green Jobs Act (2008)
- Administers the Renewable Energy Trust
- See: www.masscec.com

MassCEC Areas of Focus

Idea Research Development Manufacturing Project/Installation



**Clean Energy
Sector
Development**

**Investments in Clean
Technology**

**Renewable
Energy
Generation**

Workforce Development

Opportunities for Water & Wastewater

- Commonwealth Hydro (existing)
- Commonwealth Solar (existing)
- Commonwealth Wind (existing)
- Future Programs
 - Anaerobic Digestion?
 - Combined Heat & Power?
 - Give us your input!

Conduit Hydropower

- Installations of energy recovery systems in man-made structures originally built for other purposes
 - Transmission or distribution of drinking water
 - Sewage system outfalls
 - Irrigation canals
 - Industrial consumptive uses
- Definition comes from FERC; “conduit exemption”

Examples of Conduit Hydro in MA

- City of Pittsfield – Ashley Water Trtmnt Plant
 - Currently generates ~325,000 kWh/year
 - Studying upgrades
- MWRA Deer Island WWTP outfall to tunnel
 - 2 x 1 MW generators; ~5,000,000 kWh/yr
- MWRA Loring Road – under construction
 - Replacement for pressure-reducing valve
 - 200 kW turbine to produce ~1,200,000 kWh/yr

MWRA Loring Road Installation

Nov. 16, 2010



Communities Studying Conduit Hydro

- Holyoke Water Department - ongoing
- Fitchburg Water Department - ongoing
- Northampton – long payback
- Worcester – operational concerns
- Cambridge – financial concerns

Commonwealth Hydropower Grants

- Feasibility Studies
 - up to \$40,000
 - 20% grantee share
- Design & Construction
 - up to \$600,000
 - 50% grantee share
 - Cap of \$1/kWh/yr

Commonwealth Hydro - Eligibility

- Facility Types
 - New or Upgraded “Conduit” Hydro
 - Upgrades of FERC-licensed hydroelectric facilities
- Renewable Energy Trust contributor (IOU customer or MLP that contributes to Trust)
- Facility must have a good chance at MA RPS qualification (“Low Impact” certification)
- Minimum generation potential: 200,000 kWh/yr

Commonwealth Hydropower Process

- Competitive Solicitation
- Next round announced Jan/Feb 2011
- About 2 months from announcement to application deadline
- Previous solicitation documents available at www.masscec.com
 - Let us know if you would need assistance applying

Other Types of Projects

- Anaerobic digestion
 - with or without non-wastewater organics added
- Combined heat and power
- What are your needs?

Talk to Us

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